

RPES8337

## Product Information

<b>Product SKU:</b> RPES8337	<b>Expression Host:</b> Mammalian	<b>Size:</b> 20µg
<b>Tag:</b> C-Fc	<b>Reactivity:</b> Human	<b>Accession:</b> Q04609

## Additional Information

<b>Calculated MW:</b> 102.6 kDa	<b>Observed MW:</b> 100-110 kDa
<b>Sequence:</b> Lys44-Ala750	

## Protein Information

**Background:** Glutamate carboxypeptidase 2 , also known as Glutamate carboxypeptidase II , Membrane glutamate carboxypeptidase , Prostate-specific membrane antigen , GCPII , PSMA , FOLH1 , and NAALAD1 , is a single-pass type II membrane protein which belongs to thepeptidase M28 family and M28B subfamily. FOLH1 is highly expressed in prostate epithelium. It is detected in urinary bladder , kidney , testis , ovary , fallopian tube , breast , adrenal gland , liver , esophagus , stomach , small intestine , colon , brain (at protein level) , and the capillary endothelium of a variety of tumors. FOLH1 has both folate hydrolase and N-acetylated alpha linked acidic dipeptidase (NAALADase) activity. It has a preference for tri-alpha-glutamate peptides. Genetic variation in FOLH1 may be associated with low folate levels and consequent hyperhomocysteinemia. This condition can result in increased risk of cardiovascular disease , neural tube defects , and cognitive deficits. FOLH1 also shows a promising role in directed imaging and therapy of recurrent or metastatic disease.

**Synonyms:** GCP, GIG, Folate hydrolase, Glutamate carboxypeptidase, NAALAD, FGCP, FOLH, GCP2, GCPII, NAALAD1, NAALAdase, PSM, PSMA, mGCP, FOLH1, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Glutamate carboxypeptidase 2, NAALADase I, N-acetylated alpha-linked acidic dipeptidase 1|cell growth-inhibiting protein 27|folate hydrolase 1|folylpoly-gamma-glutamate carboxypep, GIG27, FGCP, FOLH, GCP2, GCPII, NAALAD1, NAALAdase, PSM, PSMA, mGCP, FOLH1

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<b>Endotoxin:</b>	< 1.0 EU/mg of the protein as determined by the LAL method
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Purity:</b>	> 90% as determined by reducing SDS-PAGE.
<b>Bio-Activity:</b>	Not validated for activity
<b>Storage:</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.